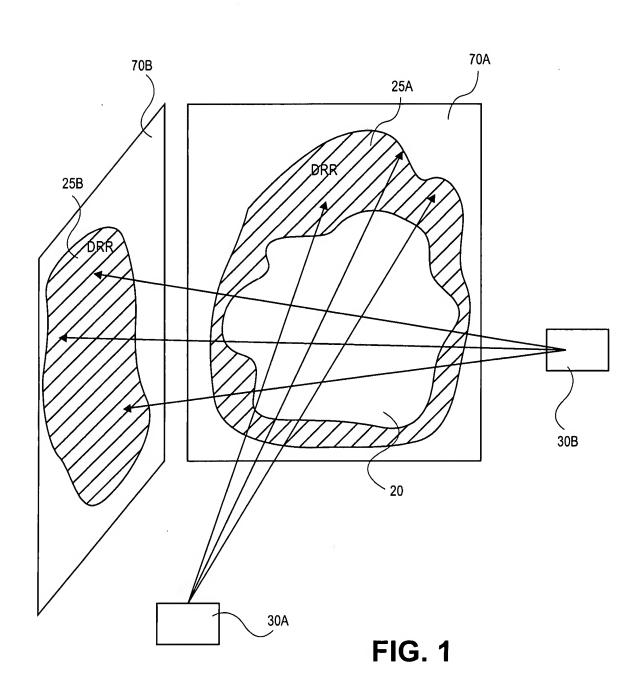
Replacement Sheet Application No. 10/813,807





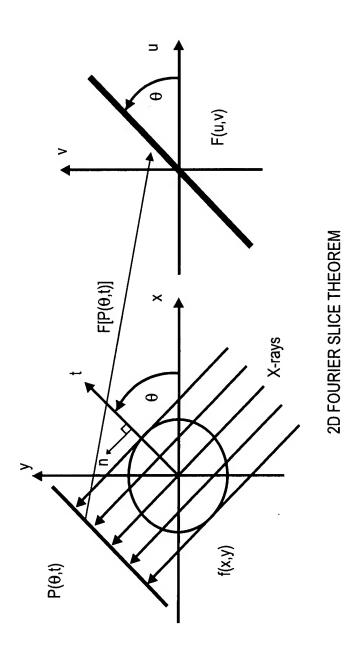
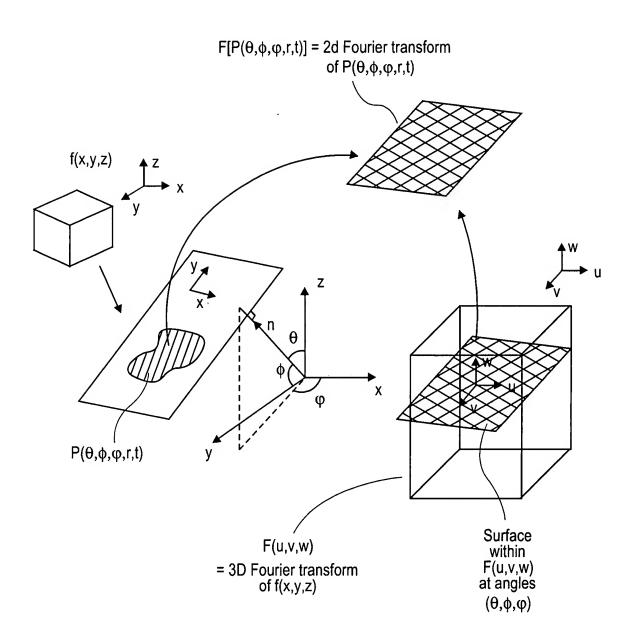


FIG. 2



3D Fourier Slice Theorem

FIG. 3

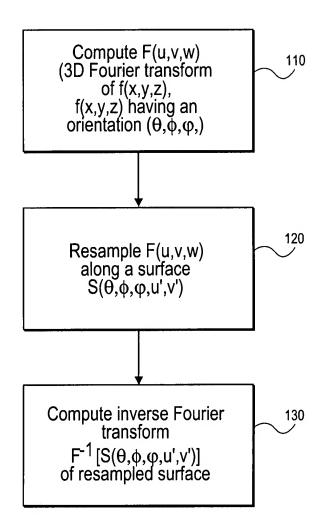


FIG. 4

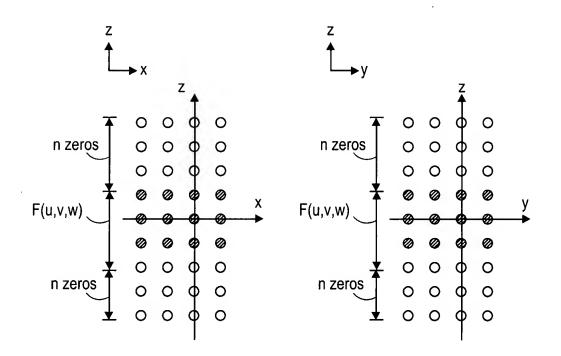


FIG. 5A

FIG. 5B

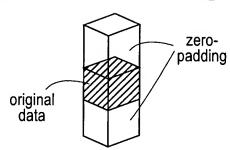


FIG. 5C

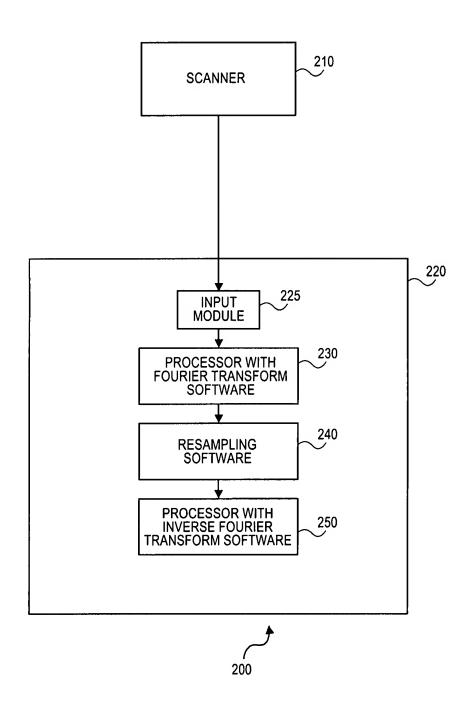


FIG. 6

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СТ	Com	Computational Complexity (Number of computations)	ity (Number of co	omputations)		Computation advantage for	Ivantage for
Volume	Current Methods	Methods		New Method		new method (# of times faster)	f times faster)
(M=N=P)	For each DRR	For each DRR For 100 DRRs	3-D FFT	For each DRR		For 100 DRRs For each DRR For 100 DRRs	For 100 DRRs
32	262144	26214400	491520	18432	2334720	26.67	11.23
64	2097152	209715200	4718592	81920	12910592	57.60	16.24
128	16777216	1677721600	44040192	360448	80084992	122.18	20.95
256	134217728	13421772800	402653184	1572864	559939584	256.00	23.97
512	1073741824	1.07374E+11	3623878656	6815744	4305453056	531.69	24.94

FIG. 7